		
	Application No.	Applicant(s)
Notice of Allowability	10/533,598	FUNNEMANN ET AL.
	Examiner	Art Unit
	Nikita Wells	2881
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comn RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. 🔀 This communication is responsive to "Preliminary Amenda	ment" received 3 May 2005	
2. The allowed claim(s) is/are <u>1-20</u> .		
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).
Certified copies of the priority documents have	re been received in Applicat	ion No
Copies of the certified copies of the priority de	ocuments have been receive	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ıst be submitted.	
(a) ☐ including changes required by the Notice of Draftsper	rson's Patent Drawing Revie	ew (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment o	or in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
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Attachment(s)	E □ Notice of I	aformal Detait Application
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application
2. Motice of Dratiperson's Patent Drawing Review (P10-946)	Paper No	Summary (PTO-413), J./Mail Date <u>03/</u> 28/07 s Amendment/Comment
3. Information Disclosure Statements (PTO/SB/08),	7. 🛭 Examiner	s Amendment/Comment
Paper No./Mail Date 05/03/05 & 03/16/06 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner	s Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	·
		Nikita Wells Primary Examiner Art Unit: 2881

Art Unit: 2881

DETAILED ACTION

Examiner's amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul E. Szabo on March 28, 2007.

The Examiner initiated an Interview with the Applicant in order to insert the missing Headings in the Specification, so that the application could be allowed. The following Headings were inserted into the Specification:

On page 3, before the first paragraph, starting with "The invention ..." the following is inserted: --BACKGROUND OF THE INVENTION--.

On page 9, before the last paragraph, starting with "The task of the invention..." the following is inserted: --SUMMARY OF THE INVENTION--.

On page 15, before the fourth paragraph, starting with "Exemplary embodiments..." the following is inserted: --BRIEF DESCRIPTION OF THE DRAWINGS--.

On page 16, before the third paragraph from the bottom, starting with "Figure 1 shows..." the following is inserted: --DETAILED DESCRIPTION OF THE INVENTION--.

Allowable Subject Matter

- 2. Claims 1-20 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

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With respect to the independent claim 1, prior art fails to disclose or make obvious an image-generating energy filter for electrically charged particles such as electrons and ions with at least two toroidal energy analyzers arranged in a row, where at least one energy analyzer has a diaphragm at its entrance plane and another diaphragm at its exit plane, characterized in that: a transfer lens device (20, 20') is located between the exit plate (5) of the first energy analyzer (30, 30', 30") and the entrance plane (6) of the second energy analyzer (40, 40', 40"), which device has negative lateral magnification V_{\bullet} , negative angular magnification V_{\bullet} , image rotation around the angle $\gamma = \beta$ - 180°, and a telescopic beam path, where its respective deflection angles ϕ are equal and its energy-dispersive planes (33, 43) are rotated around the angle β with respect to each other.

The dependent claims 2-20 are allowed by virtue of their dependence upon claim 1.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. R.L. Gerlach (4,882,487) discloses a direct-imaging, monochromatic electron microscope using a transfer lens and an energy filter to transmit monochromatic beams.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikita Wells whose telephone number is (571) 272-2484. The examiner can normally be reached on 8:30 AM 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The central fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nikita Wells, Primary Examiner Art Unit 2881

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March 28, 2007